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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/620,867	07/16/2003	William R. McKinley	923607-94612	9133
7590	11/29/2005		EXAMINER	
JOHN W HAYES P.O. BOX 365 ARLINGTON HEIGHTS, IL 60006-0365			HOGE, GARY CHAPMAN	
			ART UNIT	PAPER NUMBER
			3611	
			DATE MAILED: 11/29/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/620,867	MCKINLEY, WILLIAM R.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Gary C. Hoge	3611	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 26 August 2005.  
 2a) This action is **FINAL**.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 13-33 is/are pending in the application.  
 4a) Of the above claim(s) 14 is/are withdrawn from consideration.  
 5) Claim(s) 34 is/are allowed.  
 6) Claim(s) 13 and 15-33 is/are rejected.  
 7) Claim(s) 22 is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on 18 June 2004 is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
|  | 6) <input type="checkbox"/> Other: _____                                    |

## **DETAILED ACTION**

### ***Election/Restrictions***

1. Claim 14 is withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on August 26, 2005.

### ***Drawings***

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: "30" (page 16, line 16). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the spring-loaded engagement means (claim 25), the two transverse operating modes (claim 32) and the low-friction slider bar (claim 33) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

***Claim Objections***

4. Claim 17 is objected to because of the following informalities: on line 2, "removable" should be "removably". Appropriate correction is required.

***Claim Rejections - 35 USC § 112***

5. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

6. Claims 25, 32 and 33 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which

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was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. See the above objections to the drawing.

7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

8. Claims 26-31 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 26, there is no antecedent basis for “the movable plate” (line 4).

***Claim Rejections - 35 USC § 102***

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

10. Claims 13, 16, 23, 24 and 26-30 are rejected under 35 U.S.C. 102(e) as being anticipated by Dana et al. (2004/0020088).

Dana discloses a device comprising means for resolving image information **102**; a light-transmissive back plate **104** removably attached<sup>1</sup> to the means for resolving image information; means for storing image information **130**, the means for storing image information positioned between the means for resolving image information and the back plate; means for providing

reciprocating motion of the means for storing image information with respect to the means for resolving image information **424**; and means for selection of a desired image display sequence from among a plurality of image display sequences (para. 0141).

Regarding claim 24, see para. 0102.

Regarding claim 26, see Fig. 2. Dana discloses a base plate **136** secured to the means for resolving image information **102**, and a transit plate **302** in sliding contact with the base plate, with the transit plate including a drive pin **314** contacting the means for storing image information.

Regarding claims 27, 28 and 30, see paras. 0101-0102.

Regarding claim 29, the time delay can be made at any point in the travel of the means for storing image information.

#### *Claim Rejections - 35 USC § 103*

11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

12. Claims 13 and 15-19 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sekiguchi et al. (5,695,346) in view of Ludwig (3,841,010).

See Figs. 38-40. Sekiguchi discloses a housing **700**, a means for resolving image information **704**; a back plate **714** removably attached to the means for resolving image information; means for storing image information **723**, the means for storing image information

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<sup>1</sup> Everything is removable given a sufficient application of force.

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positioned between the means for resolving image information and the back plate; means for providing reciprocating motion of the means for storing image information with respect to the means for resolving image information 728, 730; and means for selection of a desired image display sequence from among a plurality of image display sequences (a specific scroll is selected from multiple scrolls). However, it is not known whether the back plate is translucent. Ludwig teaches that it was known in the art to make the back plate of a sign translucent in order to backlight the sign. It would have been obvious to one having ordinary skill in the art at the time the invention was made to make the back plate disclosed by Sekiguchi translucent, as taught by Ludwig, in order to backlight the sign.

Regarding claim 16, in order to backlight the sign, it is obvious that it would also be necessary to make the means for storing image information (728, 730) translucent.

Regarding claims 17-19, the back plate disclosed by Sekiguchi is attached by latches. However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use mating fasteners instead, because it is well settled that swapping one known fastener for another involves only routine skill in the art.

Regarding claim 20, a translucent back plate would inherently diffuse light.

13. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sekiguchi et al. (5,695,346) in view of Ludwig (3,841,010) as applied to claim 13 above, and further in view of Kainen (6,843,009).

Sekiguchi discloses the invention substantially as claimed, as set forth above. However, there is no means for maintaining consistent contact between the means for resolving image information and the means for storing image information. Kainen teaches that it was known in

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the art to provide a means 28 to maintain consistent contact between the means for resolving image information and the means for storing image information. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the device disclosed by Sekiguchi with a means to maintain consistent contact between the means for resolving image information and the means for storing image information, as taught by Kainen, in order to avoid blurring the image.

Regarding claim 32, see col. 17, lines 32-35.

***Allowable Subject Matter***

14. Claim 22 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

15. Claim 31 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

16. Claim 34 is allowed.

***Conclusion***

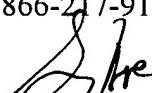
17. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

18. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gary C. Hoge whose telephone number is (571) 272-6645. The examiner can normally be reached on 5-4-9.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lesley Morris can be reached on (571) 272-6651. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Gary C Hoge  
Primary Examiner  
Art Unit 3611

gch